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☑ **2C6A**

SOLUTION STRUCTURE OF THE C4 ZINC-FINGER DOMAIN OF HDM2

Characteristics **Release Date:** 04-Jan-2006 **Exp. Method:** NMR 20 Structi

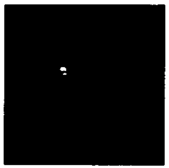
Classification **Ligase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Protein Ligase E3 Mdm2

Authors **Yu, G.W., Allen, M.D., Andreeva, A., Fersht, A.R., Bycroft, M.**

☑ **2C6B**

SOLUTION STRUCTURE OF THE C4 ZINC-FINGER DOMAIN OF HDM2



Characteristics **Release Date:** 04-Jan-2006 **Exp. Method:** NMR 20 Structi

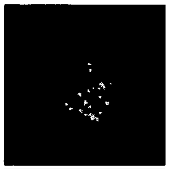
Classification **Ligase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Protein Ligase E3 Mdm2

Authors **Yu, G.W., Allen, M.D., Andreeva, A., Fersht, A.R., Bycroft, M.**

☑ **1TTV**

NMR Structure of a Complex Between MDM2 and a Small Molecule Inhibitor



Characteristics **Release Date:** 04-Jan-2005 **Exp. Method:** NMR 18 Structi

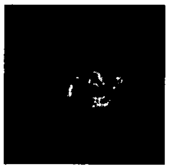
Classification **Ligase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Protein Ligase E3 Mdm2 **Fragment:** Resiudes 13 119 **Mutation:** I50L, P92H, L95I

Authors **Fry, D.C., Emerson, S.D., Palme, S., Vu, B.T., Li C.M., Podlaski, F.**

☑ **1Z1M**

NMR structure of unliganded MDM2



Characteristics **Release Date:** 28-Jun-2005 **Exp. Method:** NMR 24 Structi

Classification **Ligase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Protein Ligase E3 Mdm2 **Fr** Terminal Domain

Authors **Uhrinova, S., Uhrin, D., Powers, H., Watt, K., Z D., Fischer, P., McInnes, C., Barlow, P.N.**

☑ **1RV1**

CRYSTAL STRUCTURE OF HUMAN MDM2 WITH AN IMIDAZOLINE INHIBITOR

Characteristics **Release Date:** 20-Jan-2004 **Exp. Method:** X Ray Diffractic **Resolution:** 2.30 Å

Classification **Ligase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Protein Ligase E3 Mdm2
Fragment: Residues 25 109 **Mutation:** L33E

Authors **VASSILEV, L.T., VU, B.T., GRAVES, B., CARVAJ D., PODLASKI, F., FILIPOVIC, Z., KONG, N., KAMMLOTT, U., LUKACS, C., KLEIN, C., FOT N., LIU, E.A.**

☑ **1T4F**

Structure of human MDM2 in complex with an optimized p53 peptide

Characteristics **Release Date:** 08-Feb-2005 **Exp. Method:** X Ray Diffracti
Resolution: 1.90 Å

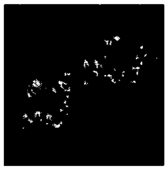
Classification **Ligase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Protein Ligase E3 Mdm2
Mutation: 17-125, ADDITIONAL GLY AT N-TERMINUS **Mol. I**
Molecule: Optimized P53 Peptide

Authors **Grasberger, B.L., Lu, T., Schubert, C., Parks, D.J., Carver, T.E., Koblish, H.K., Cummings, M.D., LaFrance, L.V., Milkiewicz, K.L.**

☑ **1YCQ**

XENOPUS LAEVIS MDM2 BOUND TO THE TRANSACTIVATION DOMAIN OF HUMAN P5



Characteristics **Release Date:** 19-Nov-1997 **Exp. Method:** X Ray Diffracti
Resolution: 2.30 Å

Classification **Complex (oncogene Protein/peptide)**

Compound **Mol. Id:** 1 **Molecule:** Mdm2 **Mol. Id:** 2 **Molecule:** P53
Fragment: Residues 13 29

Authors **Kussie, P.H., Gorina, S., Marechal, V., Elenbaas B., Moreau, J., Levine, A.J., Pavletich, N.P.**

☑ **1YCR**

MDM2 BOUND TO THE TRANSACTIVATION DOMAIN OF P53

Characteristics **Release Date:** 19-Nov-1997 **Exp. Method:** X Ray Diffracti
Resolution: 2.60 Å

Classification **Complex (oncogene Protein/peptide)**

Compound **Mol. Id:** 1 **Molecule:** Mdm2 **Fragment:** Residues 17 125
Id: 2 **Molecule:** P53 **Fragment:** Residues 15 29

Authors **Kussie, P.H., Gorina, S., Marechal, V., Elenbaas B., Moreau, J., Levine, A.J., Pavletich, N.P.**

☑ **1T4E**

Structure of Human MDM2 in complex with Benzodiazepine Inhibitor

Characteristics **Release Date:** 08-Feb-2005 **Exp. Method:** X Ray Diffracti
Resolution: 2.60 Å

Classification **Ligase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Protein Ligase E3 Mdm2
Fragment: P53 Binding Domain **Mutation:** 17-111, ADDITI
AT N-TERMINUS

Authors **Grasberger, B.L., Lu, T., Schubert, C., Parks, D.J., Carver, T.E., Koblish, H.K., Cummings, M.D., LaFrance, L.V.**

HDM2 in complex with a beta-hairpin

☑ **2AXI**

Characteristics	**Release Date:** 21-Mar-2006 **Exp. Method:** X Ray Diffracti **Resolution:** 1.40 Å
Classification	**Ligase**
Compound	**Mol. Id:** 1 **Molecule:** Ubiquitin Protein Ligase E3 Mdm2 **Fragment:** Hdm2 **Mol. Id:** 2 **Molecule:** Cyclic 8 Mer Pepti
Authors	**Fasan, R., Dias, R.L., Moehle, K., Zerbe, O., Ob** **D., Mittl, P.R., Robinson, J.A.**

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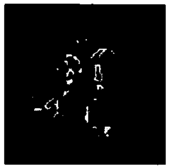
☑ **2F1Y**



Crystal structure of the TRAF-like domain of HAUSP/USP7 bound to a MDM2 peptide

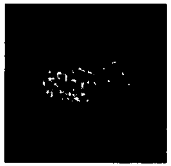
Characteristics **Release Date:** 07-Feb-2006 **Exp. Method:** X Ray Diffraction
Resolution: 1.70 Å
Classification **Hydrolase**
Compound **Mol. Id:** 1 **Molecule:** Hausp/usp7 **Fragment:** Hausp N Terminal Domain with Mdm2 Peptide Fused to Its C Termina
Authors **Hu, M., Gu, L., Li, M., Jeffrey, P.D., Gu, W., Shi, Y.**

☑ **2FOP**

The Crystal Strucure of the N-terminal domain of HAUSP/USP7 complexed with mdm2 peptide 147-150

Characteristics **Release Date:** 14-Feb-2006 **Exp. Method:** X Ray Diffraction
Resolution: 2.10 Å
Classification **Hydrolase**
Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Carboxyl Terminal Hydrolase 7 **Fragment:** Math Domain **Mol. Id:** 2
Molecule: Mdm2 Peptide
Authors **Sheng, Y., Saridakis, V., Sarkari, F., Duan, S., Wu, T., Arrowsmith, C.H., Frappier, L.**

☑ **1HN3**



SOLUTION STRUCTURE OF THE N-TERMINAL 37 AMINO ACIDS OF THE MOUSE ARF TUMOR SUPPRESSOR PROTEIN

Characteristics **Release Date:** 05-Dec-2001 **Exp. Method:** NMR 20 Structures
Classification **Antitumor Protein**
Compound **Mol. Id:** 1 **Molecule:** P19 Arf Protein **Fragment:** Residues 1 37
Authors **DiGiammarino, E.L., Filippov, I., Weber, J.D., Bothner, B., Kriwacki, R.W.**

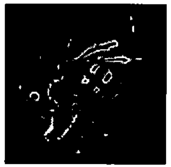
☑ **2F1W** **Crystal structure of the TRAF-like domain of HAUSP/USP7**

Characteristics	**Release Date:** 07-Feb-2006 **Exp. Method:** X Ray Diffraction **Resolution:** 1.65 Å
Classification	**Hydrolase**
Compound	**Mol. Id:** 1 **Molecule:** Ubiquitin Carboxyl Terminal Hydrolase 7 **Fragment:** N Terminal Fragment (residues : 53 206
Authors	**Hu, M., Gu, L., Li, M., Jeffrey, P.D., Gu, W., Shi, Y.**

☑ **2BIN** **HUMAN P53 CORE DOMAIN MUTANT M133L-H168R-V203A-N239Y-N268D**

Characteristics	**Release Date:** 26-Jan-2005 **Exp. Method:** X Ray Diffraction **Resolution:** 1.90 Å
Classification	**DNA Binding Protein**
Compound	**Mol. Id:** 1 **Molecule:** Cellular Tumor Antigen P53 **Fragment:** DNA Binding (core) Domain Residues 94 312 **Mutation:** YES
Authors	**Joerger, A.C., Ang, H.C., Veprintsev, D.B., Blair, C.M., Fersht, A.R.**

☑ **2BIO** **HUMAN P53 CORE DOMAIN MUTANT M133L-V203A-N239Y-R249S-N268D**

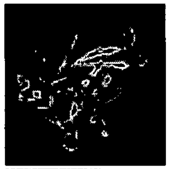


Characteristics	**Release Date:** 26-Jan-2005 **Exp. Method:** X Ray Diffraction **Resolution:** 1.90 Å
Classification	**DNA Binding Protein**
Compound	**Mol. Id:** 1 **Molecule:** Cellular Tumor Antigen P53 **Fragment:** DNA Binding (core) Domain Residues 94 312 **Mutation:** YES
Authors	**Joerger, A.C., Ang, H.C., Veprintsev, D.B., Blair, C.M., Fersht, A.R.**

☑ **2BIP** **HUMAN P53 CORE DOMAIN MUTANT M133L-H168R-V203A-N239Y-R249S-N268D**

Characteristics	**Release Date:** 26-Jan-2005 **Exp. Method:** X Ray Diffraction **Resolution:** 1.80 Å
Classification	**DNA Binding Protein**
Compound	**Mol. Id:** 1 **Molecule:** Cellular Tumor Antigen P53 **Fragment:** Residues 94 312 (dna Binding (core) Domain)
Authors	**Joerger, A.C., Ang, H.C., Veprintsev, D.B., Blair, C.M., Fersht, A.R.**

☑ **2BIQ** **HUMAN P53 CORE DOMAIN MUTANT T123A-M133L-H168R-V203A-N239Y-R249S-N268D**



Characteristics **Release Date:** 26-Jan-2005 **Exp. Method:** X Ray Diffraction

Resolution: 1.80 Å

Classification **DNA Binding Protein**

Compound **Mol. Id:** 1 **Molecule:** Cellular Tumor Antigen P53 **Fragment:** Residues 94 312 (dna Binding (core) Domain)

Authors **Joerger, A.C., Ang, H.C., Veprintsev, D.B., Blair, C.M., Fersht, A.R.**

☑ **2FOJ** **The Crystal Strucure of the N-terminal domain of HAUSP/USP7 complexed with p53 peptide 364-367**

Characteristics **Release Date:** 14-Feb-2006 **Exp. Method:** X Ray Diffraction

Resolution: 1.60 Å

Classification **Hydrolase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Carboxyl Terminal Hydrolase 7 **Fragment:** Math Domain **Mol. Id:** 2 **Molecule:**

Peptide

Authors **Sheng, Y., Saridakis, V., Sarkari, F., Duan, S., Wu, T., Arrowsmith, C.H., Frappier, L.**

☑ **2FOO** **The Crystal Strucure of the N-terminal domain of HAUSP/USP7 complexed with p53 peptide 359-362**

Characteristics **Release Date:** 14-Feb-2006 **Exp. Method:** X Ray Diffraction

Resolution: 2.20 Å

Classification **Hydrolase**

Compound **Mol. Id:** 1 **Molecule:** Ubiquitin Carboxyl Terminal Hydrolase 7 **Fragment:** Math Domain **Mol. Id:** 2 **Molecule:**

Peptide

Authors **Sheng, Y., Saridakis, V., Sarkari, F., Duan, S., Wu, T., Arrowsmith, C.H., Frappier, L.**

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☑ **1UOL**

CRYSTAL STRUCTURE OF THE HUMAN P53 CORE DOMAIN MUTANT M133L/V203A/N239Y/N268D AT 1.9 A RESOLUTION.

Characteristics **Release Date:** 16-Oct-2003 **Exp. Method:** X Ray Diffraction

Resolution: 1.90 Å

Classification **DNA Binding Protein**

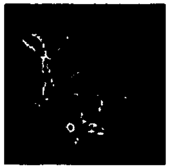
Compound **Mol. Id:** 1 **Molecule:** Cellular Tumor Antigen P53 **Fragment:** DNA Binding (core) Domain Residues 94 312

Mutation: YES

Authors **Joerger, A.C., Allen, M.D., Fersht, A.R.**

☑ **2BIM**

HUMAN P53 CORE DOMAIN MUTANT M133L-V203A-N239Y-N268D-R273H



Characteristics **Release Date:** 26-Jan-2005 **Exp. Method:** X Ray Diffraction

Resolution: 1.98 Å

Classification **DNA Binding Protein**

Compound **Mol. Id:** 1 **Molecule:** Cellular Tumor Antigen P53 **Fragment:** DNA Binding (core) Domain Residues 94 312

Mutation: YES

Authors **Joerger, A.C., Ang, H.C., Veprintsev, D.B., Blair, C.M., Fersht, A.R.**

☑ **2F1X**

Crystal structure of the TRAF-like domain of HAUSP/USP7 bound to a p53 peptide

Characteristics **Release Date:** 07-Feb-2006 **Exp. Method:** X Ray Diffraction

Resolution: 2.30 Å

Classification **Hydrolase**

Compound **Mol. Id:** 1 **Molecule:** Hausp/usp7 **Fragment:** P53 Peptide Fusion with Hausp N Terminal

Authors **Hu, M., Gu, L., Li, M., Jeffrey, P.D., Gu, W., Shi, Y.**

☑ **1GZH**

CRYSTAL STRUCTURE OF THE BRCT DOMAINS OF HUMAN 53BP1 BOUND TO THE P53 TUMOR SUPRESSOR

☐

Characteristics	**Release Date:** 27-Jun-2002 **Exp. Method:** X Ray Diffraction **Resolution:** 2.60 Å
Classification	**Gene Regulation**
Compound	**Mol. Id:** 1 **Molecule:** Cellular Tumor Antigen P53 **Fragment:** DNA Binding Region Residues 95 292 **Mol. Id:** 2 **Molecule:** Tumor Suppressor P53 Binding Protein 1 **Fragment:** Brct Tandem Repeat Residues 1724 1972 **Mol. Id:** **Molecule:** Cellular Tumor Antigen P53 **Fragment:** DNA Binding Region Residues 95 292
Authors	**Derbyshire, D., Basu, B., Serpell, L., Joo, W., Date, T., Iwabuchi, K., Doherty, A.**

☑ **2F1Z**

Crystal structure of HAUSP

☐

Characteristics	**Release Date:** 07-Feb-2006 **Exp. Method:** X Ray Diffraction **Resolution:** 3.20 Å
Classification	**Hydrolase**
Compound	**Mol. Id:** 1 **Molecule:** Ubiquitin Carboxyl Terminal Hydrolase 7 **Fragment:** Residues: 43 560
Authors	**Hu, M., Gu, L., Li, M., Jeffrey, P.D., Gu, W., Shi, Y.**

☑ **1H26**

CDK2/CYCLIN A IN COMPLEX WITH AN 11-RESIDUE RECRUITMENT PEPTIDE FROM P53

☐

Characteristics	**Release Date:** 01-Feb-2003 **Exp. Method:** X Ray Diffraction **Resolution:** 2.24 Å
Classification	**Cell Cycle**
Compound	**Mol. Id:** 1 **Molecule:** Cell Division Protein Kinase 2 **Mol. Id:** 2 **Molecule:** Cyclin A2 **Fragment:** Cyclin Fold Fragment 175 432 **Mol. Id:** 3 **Molecule:** Cellular Tumor Antigen P53 **Fragment:** Residues 376 386
Authors	**Lowe, E., Tews, I., Cheng, K., Brown, N., Gul, S., Noble, M., Gamblin, S., Johnson, L.**

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1YCR

Title MDM2 BOUND TO THE TRANSACTIVATION DOMAIN OF P53

Authors Kussie, P.H., Pavletich, N.P.

Primary Citation **Kussie, P.H., Gorina, S., Marechal, V., Elenbaas, B., Moreau, J., Levine, A.J., Pavletich, N.P.** Structure of the MDM2 oncoprotein bound to the p53 tumor suppressor transactivation domain. *Science v274 pp.948-953, 1996*

[Abstract]

History Deposition 1996-09-30 Release 1997-11-19

Experimental Method Type X-RAY DIFFRACTION Data N/A

Parameters

Resolution[Å]	R-Value	R-Free	Space Group
2.60	0.200 (obs.)	0.276	C 2 2 2_1

Unit Cell

Length [Å]	a	43.41	b	100.55	c	54.85
Angles [°]	alpha	90.00	beta	90.00	gamma	90.00

Molecular Description Asymmetric Unit

Polymer: 1 Molecule: MDM2 Fragment: RESIDUES 17 - 125 Chains: A

Polymer: 2 Molecule: P53 Fragment: RESIDUES 15 - 29 Chains: B

Images and Visualization

Biological Molecule / Asymmetric Unit

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Protein Workshop
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All Images

Functional Class **Complex (oncogene Protein/peptide)**

Source Polymer: 1 Scientific Name: **Homo sapiens** Common Name: **Human** Expression system: **Homo sapiens** Polymer: 2 Scientific Name: Synthetic construct

SCOP Classification (version 1.69)

Domain Info	Class	Fold	Superfamily	Family	Domain	Species
d1ycra_	All alpha proteins	SWIB/MDM2 domain	SWIB/MDM2 domain	SWIB/MDM2 domain	MDM2	Human (Homo sapiens)

CATH Classification (version v2.6.0)

Domain	Class	Architecture	Topology	Homology
1ycrA0	Mainly Alpha	Orthogonal Bundle	MDM2	MDM2

GO Terms

Polymer	Molecular Function	Biological Process	Cellular Component
MDM2 (1YCR:A)	● protein binding ● zinc ion binding	● none	● nucleus
P53 (1YCR:B)	● DNA binding ● transcription factor activity	● regulation of transcription, DNA-dependent	● nucleus

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```
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SEQRES   2 A  109  PRO LYS PRO LEU LEU LEU LYS LEU LEU LYS SER VAL GLY
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SEQRES   6 A  109  LEU GLY ASP LEU PHE GLY VAL PRO SER PHE SER VAL LYS
SEQRES   7 A  109  GLU HIS ARG LYS ILE TYR THR MET ILE TYR ARG ASN LEU
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SEQRES   9 A  109  SER VAL SER GLU ASN
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Clown Frog.

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1YCQ

Title	XENOPUS LAEVIS MDM2 BOUND TO THE TRANSACTIVATION DOMAIN OF HUMAN P53
Authors	Kussie, P.H., Pavletich, N.P.
Primary Citation	**Kussie, P.H., Gorina, S., Marechal, V., Elenbaas, B., Moreau, J., Levine, A.J., Pavletich, N.P.** Structure of the MDM2 oncoprotein bound to the p53 tumor suppressor transactivation domain. *Science v274 pp.948-953 , 1996* [Abstract]
History	Deposition 1996-09-30 Release 1997-11-19
Experimental Method	Type X-RAY DIFFRACTION Data N/A

Parameters

Resolution[Å]	R-Value	R-Free	Space Group
2.30	0.188 (obs.)	0.253	P 6_3 2 2

Unit Cell

Length [Å]	a 84.96		b 84.96		c	63.89
Angles [°]	alpha 90.00		beta 90.00		gamma	120.00

Molecular Description Asymmetric Unit

Polymer: 1 Molecule: MDM2 Chains: A
Polymer: 2 Molecule: P53 Fragment: RESIDUES 13 - 29 Chains: B

Images and Visualization

Biological Molecule

Display Options

KiNG
Jmol
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Functional Class **Complex (oncogene Protein/peptide)**

Source Polymer: 1 Scientific Name: **Xenopus laevis** Common Name: **African clawed frog** Expression system: **Xenopus laevis** Polymer: 2 Scientific Name: Synthetic construct

SCOP Classification (version 1.69)

Domain Info	Class	Fold	Superfamily	Family	Domain	Species
d1ycqa_	All alpha proteins	SWIB/MDM2 domain	SWIB/MDM2 domain	SWIB/MDM2 domain	MDM2	African clawed frog (Xenopus laevis)

CATH Classification (version v2.6.0)

Domain	Class	Architecture	Topology	Homology
1ycqA0	Mainly Alpha	Orthogonal Bundle	MDM2	MDM2

GO Terms

Polymer	Molecular Function	Biological Process	Cellular Component
MDM2 (1YCQ:A)	● protein binding ● zinc ion binding	● none	● nucleus
P53 (1YCQ:B)	● DNA binding ● transcription factor activity	● regulation of transcription, DNA-dependent	● nucleus

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